Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in

the application:

(Currently Amended) A method, comprising:

in an object oriented run-time environment, after a classfile has been loaded:

a) invoking a second method from a first method, said first method belonging

to said classfile, said invoking comprising providing an identification of

said first method and said classfile, said second method belonging to a

component, said classfile having previously registered with said

component;

b) said component performing said second method to identifying a plug-in

module for said first method based upon said identification, said plug-in

module containing to implement a handler method, said component

returning to said first method an identifier of said plug-in;

c) invoking said plug-in module from said first method to execute executing

said handler method to report and/or record information about said first

method, said information including at least an argument included in said

first method;

d) executing said first method from a point beyond where said second

method was invoked;

e) flowing from said first method to a third method;

- f) invoking said second method from said third method, said invoking including providing an identification of said third method and a second classfile that said third method is a part of, said second classfile having been loaded at least by the completion of e) above, said second classfile having previously registered with said component;
- a) said component performing said second method to identifying said plug-in module for said third method based upon said third method and second classfile identification, said component returning to said third method an identifier of said plug-in;;
- h) invoking said plug-in module from said third method to execute executing said handler method to report and/or record information about said third method, said information including at least an argument included in said third method; and,
- i) executing a portion of said third method from a point beyond where said second method was invoked from said third method, wherein said classfile and said second classfile were both modified, prior to their respectively being said loaded, with additional bytecode instructions that perform a) and f) above.
- 2. (Previously Presented) The method of claim 1 wherein said executing of said handler method at c) above causes an entry time for said first method to be recorded.

3. (Previously Presented) The method of claim 1 wherein said executing of said

handler method at c) above causes an exit time for said first method to be recorded.

4. (Previously Presented) The method of claim 1 wherein said executing of said

handler method at c) above causes a counter maintained for said first method to be

incremented.

5. (Previously Presented) The method of claim 1 wherein said executing of said

handler method at c) above causes an input parameter value of said first method to

be recorded.

6. (Previously Presented) The method of claim 1 wherein said executing of said

handler method at c) above causes a returned value of said first method to be

recorded.

7. (Original) The method of claim 1 wherein said first method is a constructor.

8. (Previously Presented) The method of claim 1 further comprising creating, prior

to said invoking at a) above, an object having an input parameter value of said first

method.

9. (Previously Presented) The method of claim 1 wherein said invoking at a) above

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further comprises providing an input parameter value of said first method.

10. (Previously Presented) The method of claim 1 wherein said invoking at a)

above further comprises identifying where said first method's instructions can be

found in memory.

11. (Currently Amended) The method of claim 1 further comprising, after said

executing said first method from a point beyond where said second method was

invoked but before said flowing to said third method at e) above:

invoking a third fourth method from said first method because said first

method is about to reach an exit point, said second method having been

invoked from said first method because an entry point of said first method

had just been reached, said component having said fourth method;

re-identifying said plug-in module for said first method as a consequence of

said invoking a third fourth method;

re-executing said handler method to report and/or record information about

said first method; and,

executing a remaining portion of said first method through said exit point.

12. (Canceled)

13. (Currently Amended) The method of claim 1 wherein g) further comprises also

identifying a second plug-in module for said third method based upon said third

method and second classfile identification, said second plug-in module containing a

second handler method.

14. (Previously Presented) The method of class 13 further comprising also

executing said second handler method to report and/or record different information

about said third method than what said first handler method reports and/or records

about said third method.

15. (Currently Amended) The method of claim 14 wherein a first object is called to

execute said first method and a second object is called to execute said third fourth

method.

16. (Previously Presented) The method of claim 15 wherein said object oriented

run-time environment is a Java object oriented environment.

17. (Currently Amended) The method of claim 1 wherein said invoking at a) above

further comprises providing said first method's signature, said first method's

signature comprising:

said identification of said first method;

said identification of said classfile that said first method is a part of; and,

said first method's arguments.

18. (Currently Amended) An article of manufacture having stored thereon

executable or interpretable program code which when processed by one or more

computing systems cause a method to be performed, said method, comprising:

in an object oriented run-time environment, after a classfile has been loaded:

- a) invoking a second method from a first method, said first method belonging
  to said classfile, said invoking comprising providing an identification of
  said first method and said classfile, said second method belonging to a
  component, said classfile having previously registered with said
  component;
- b) said component performing said second method to identifying a plug-in module for said first method based upon said identification, said plug-in module centaining to implement a handler method, said component returning to said first method an identifier of said plug-in;
- c) invoking said plug-in module from said first method to execute executing said handler method to report and/or record information about said first method, said information including at least an argument included in said first method;
- d) executing said first method from a point beyond where said second method was invoked;
- e) flowing from said first method to a third method;
- f) invoking said second method from said third method, said invoking including providing an identification of said third method and a second classfile that said third method is a part of, said second classfile having been loaded at least by the completion of e) above, said second classfile having previously registered with said component;
- g) said component performing said second method to identifying said plug-in module for said third method based upon said third method and second

classfile identification, said component returning to said third method an

identifier of said plug-in;;

h) invoking said plug-in module from said third method to execute executing

said handler method to report and/or record information about said third

method, said information including at least an argument included in said

third method; and,

i) executing a portion of said third method from a point beyond where said

second method was invoked from said third method, wherein said classfile

and said second classfile were both modified, prior to their respectively

being said loaded, with additional bytecode instructions that perform a)

and f) above.

19. (Previously Presented) The article of manufacture of claim 18 wherein said

executing of said handler method at c) above causes an entry time for said first

method to be recorded.

20. (Previously Presented) The article of manufacture of claim 18 wherein said

executing of said handler method at c) above causes an exit time for said first

method to be recorded.

21. (Previously Presented) The article of manufacture of claim 18 wherein said

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executing of said handler method at c) above causes a counter maintained for said

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first method to be incremented.

22. (Previously Presented) The article of manufacture of claim 18 wherein said

executing of said handler method at c) above causes an input parameter value of

said first method to be recorded.

23. (Previously Presented) The article of manufacture of claim 18 wherein said

executing of said handler method at c) above causes a returned value of said first

method to be recorded.

24. (Previously Presented) The article of manufacture of claim 18 wherein said first

method is a constructor.

25. (Previously Presented) The article of manufacture of claim 18 further

comprising creating, prior to said invoking at a) above, an object having an input

parameter value of said first method..

26. (Previously Presented) The article of manufacture of claim 18 wherein said

invoking at a) above further comprises providing an input parameter value of said

first method.

27. (Previously Presented) The article of manufacture of claim 18 wherein said

invoking at a) above further comprises identifying where said first method's

instructions can be found in memory.

28. (Currently Amended) The article of manufacture of claim 18 further comprising, after said executing said first method from a point beyond where said second method was invoked but before said flowing to said third method at e) above:

invoking a third fourth method from said first method because said first method is about to reach an exit point, said second method having been invoked from said first method because an entry point of said first method had just been reached, said component having said fourth method; re-identifying said plug-in module for said first method as a consequence of said invoking a third fourth method;

re-executing said handler method to report and/or record information about said first method; and,

executing a remaining portion of said first method through said exit point.

29. (Canceled).

- 30. (Currently Amended) The article of manufacture of claim18 wherein g) further comprises also identifying a second plug-in module for said third method based upon said third method and second class<u>file</u> identification, said second plug-in module containing a second handler method.
- 31. (Currently Amended) The article of manufacture of claim 30 further comprising also executing said second handler method to report and/or record different information about said third fourth method than what said first handler method reports and/or records about said third fourth method.

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32. (Previously Presented) The article of manufacture of claim 31 wherein a first object is called to execute said first method and a second object is called to execute said third method.

33. (Previously Presented) The article of manufacture of claim 32 wherein said object oriented run-time environment is a Java object oriented environment.

34. (Currently Amended) The article of manufacture of claim 18 wherein said invoking at a) above further comprises providing said first method's signature, said first method's signature comprising:

said identification of said first method; said identification of said class<u>file</u> that said first method is a part of; and, said first method's arguments.

35. - 43. (Canceled).

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